# MC Mobile

3D-MC Mobile How to Create Surfaces

How to Create New Surfaces in 3D-MC Mobile

There are 7 options to create new surfaces and edit existing surfaces in 3DMC Mobile

1. Flat Plane Surface

2. Sloping Plane Surface

3. Crown Road Surface

4. Triangulated Surface from Topo Survey

5. Raise/Lower Existing Surface

6. Subgrade of Existing Alignment

7. Surface from Polyline to Alignment with template

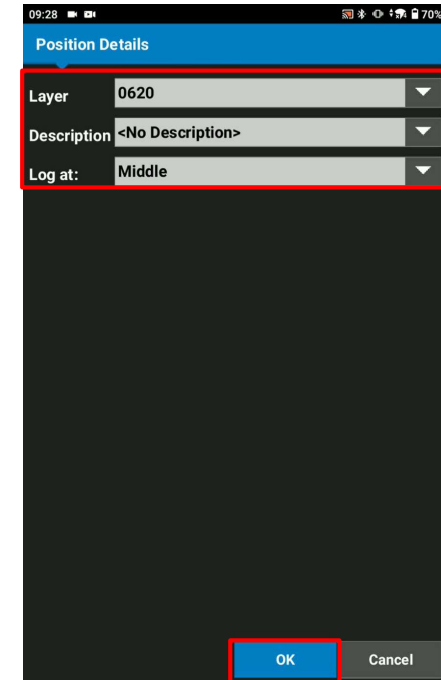8. Surface from Polyline to Alignment without template

How to Create New Surfaces in 3DMC Mobile

- Select ☰ to find the surface options

- Select Data

- Select Surfaces
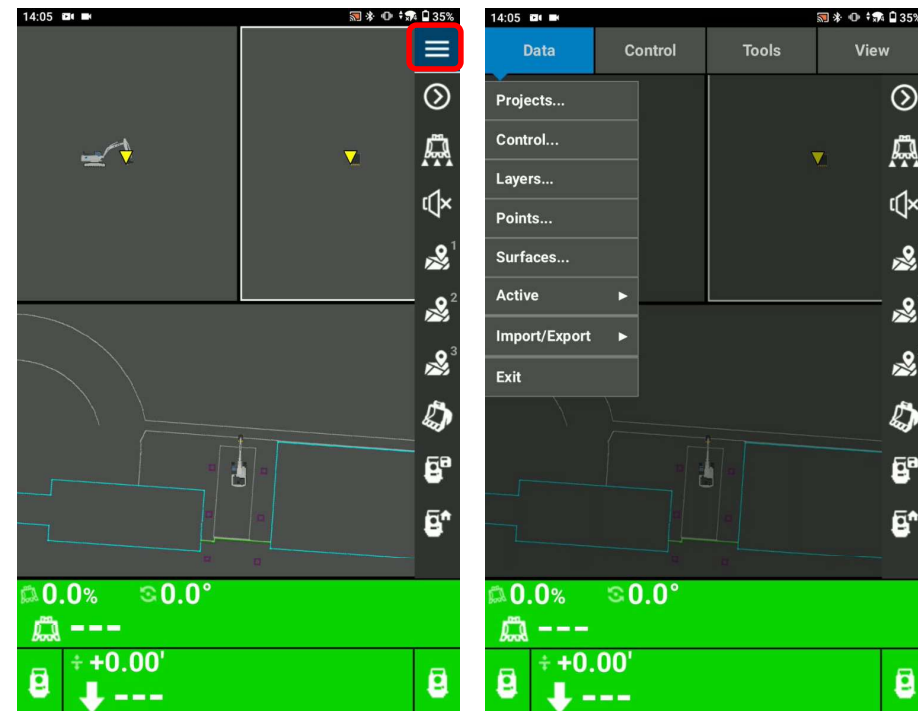
Surface from Polyline

- Take a Topo shot by using the bucket position

- Select

- Assign the layer and Point Of Interest of the bucket
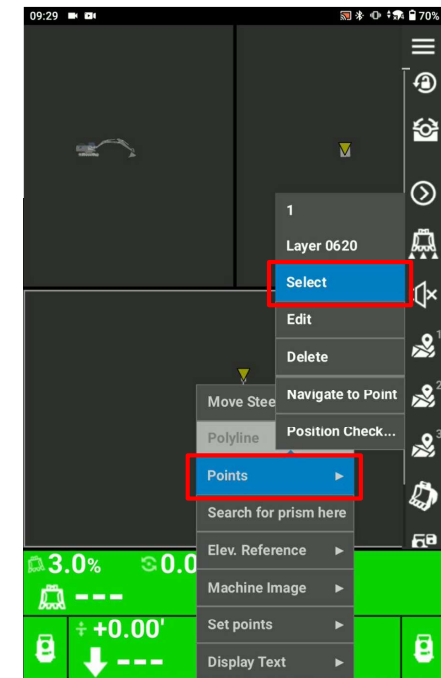
- Select OK

Surface from Polyline

- 1st point created by bucket Topo-shot
- Take a Topo shot by using the bucket position
- Select for 2nd point
- Assign the layer and Point Of Interest of the bucket
- Select OK
- 2nd point created by bucket Topo-shot
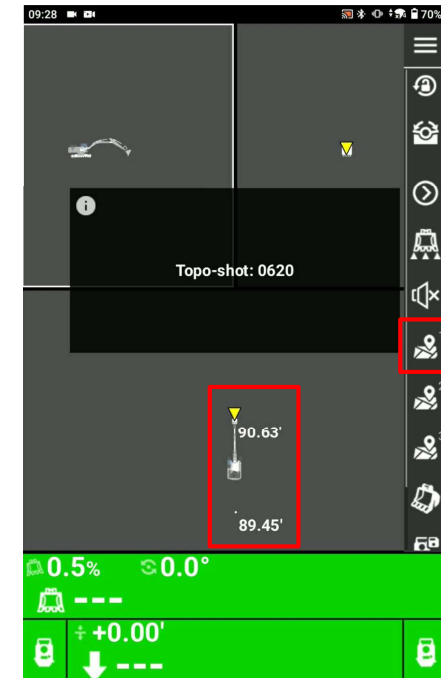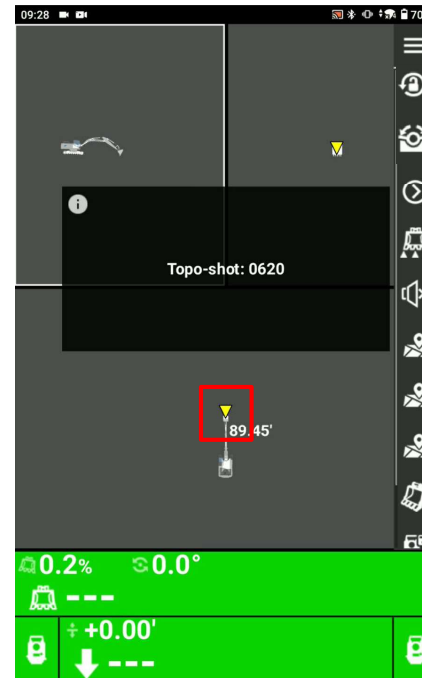
Surface from Polyline
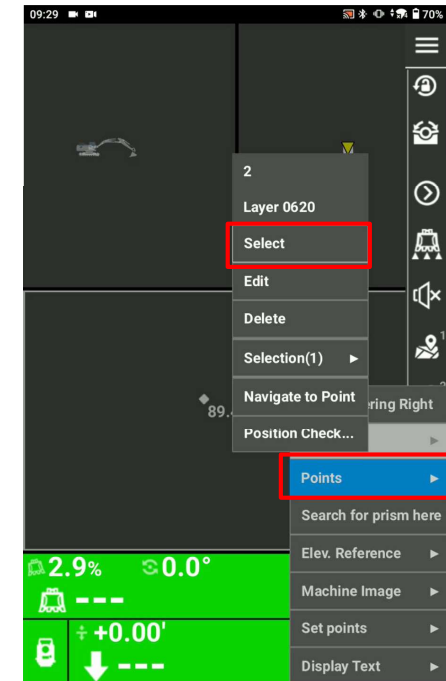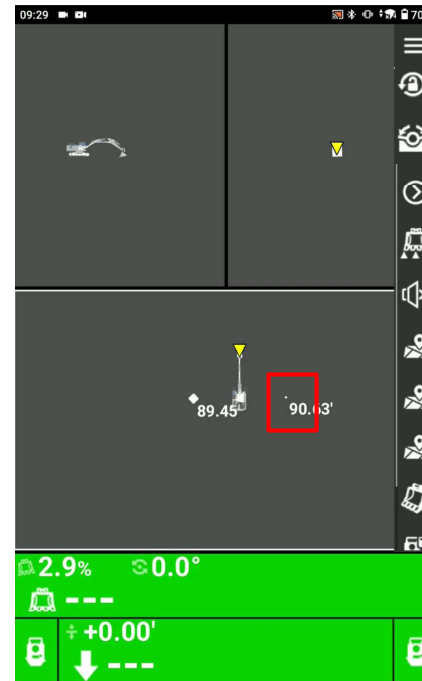
Select the created two points to make a polyline

- Press and hold the 1st point on the map view

- Select Points

- Tap Select

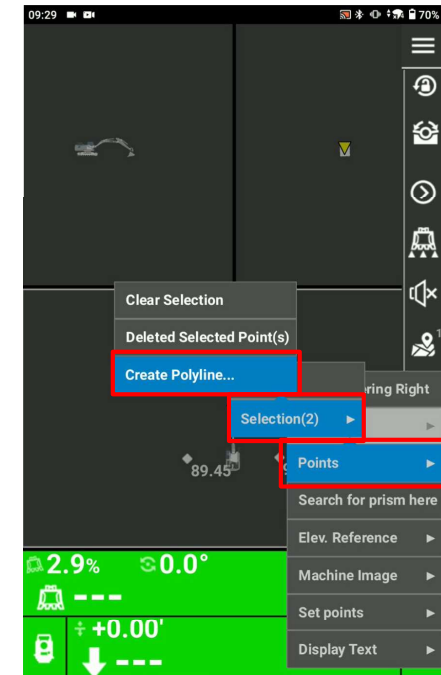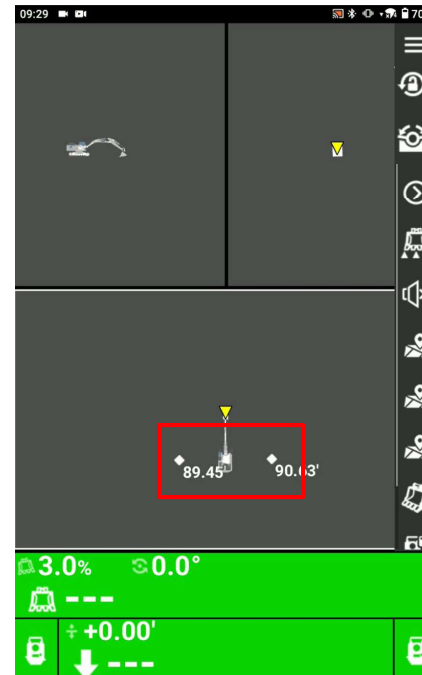- The selected point is highlighted

Surface from Polyline

Select the created two points to make a polyline

- Press and hold the 2nd point on the map view

- Select Points

- Tap Select

- The selected point is highlighted

Surface from Polyline

- See the selected two points on the map

- Press and Hold the map
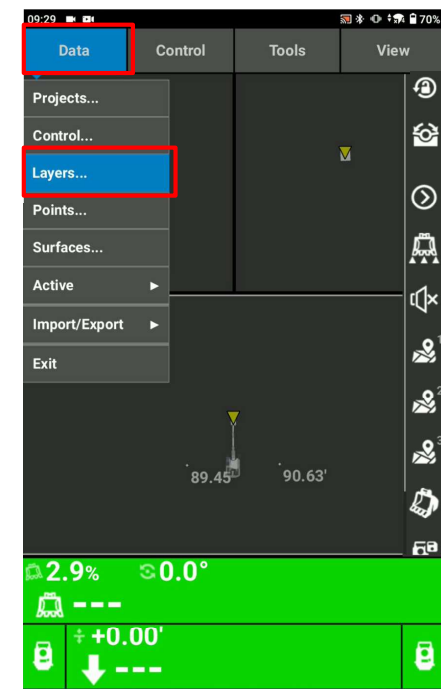
- Select Points

- Tap Selection(2)

- Create Polyline

Surface from Polyline

- Select the layer that you want to save the polyline

- Select OK

To check the polyline in the Layers

- Select Data
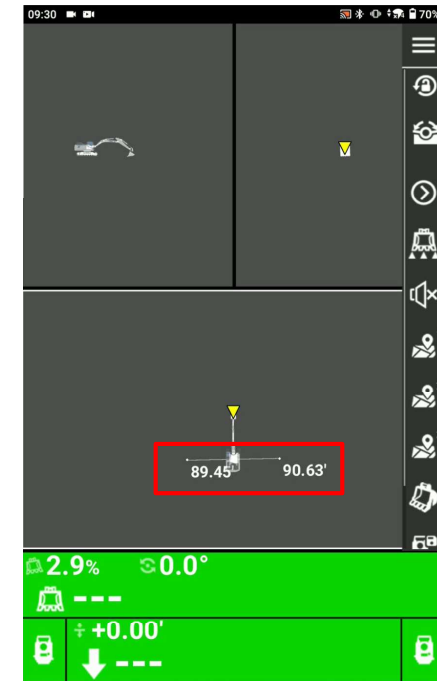
- Select Layers

Surface from Polyline

- Check the layer whether the polyline is there or not

In this case, you can see Layer name "0620", Points "2", Lines "1", Show "tick".

- Select Close

- See the polyline on the map

Surface from Polyline

Now, we can create the trench template on the selected polyline

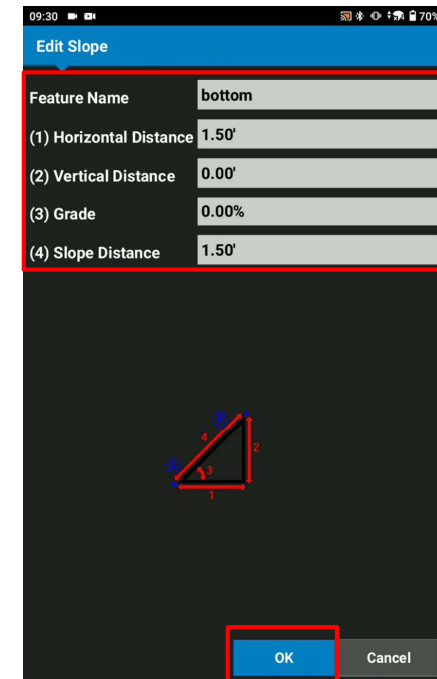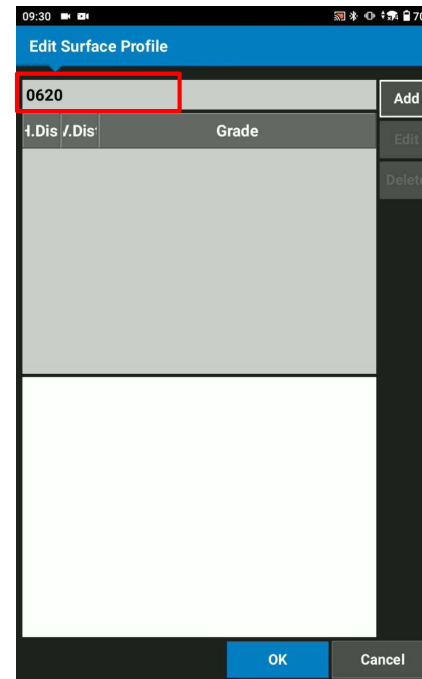- Press and hold the polyline that you want to create the Trench surface

- Select Polylines

- Select Apply Grade

- Select Surface Profile
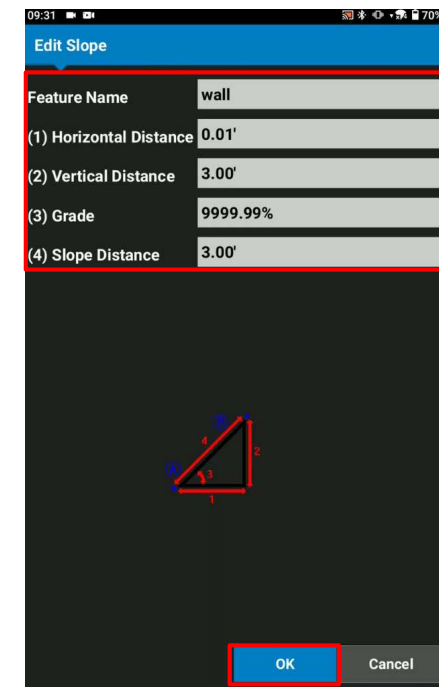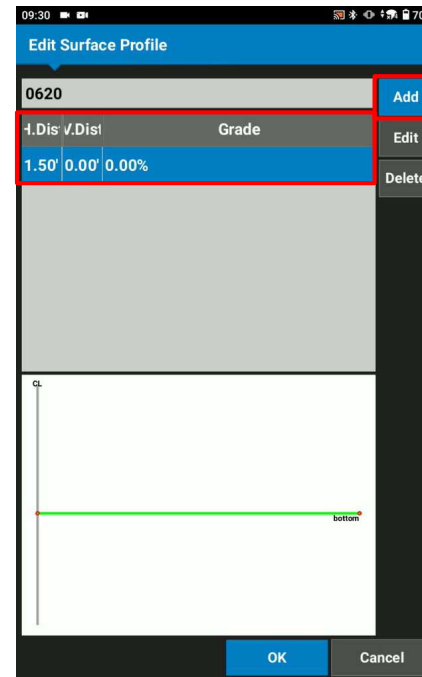
- Select Add
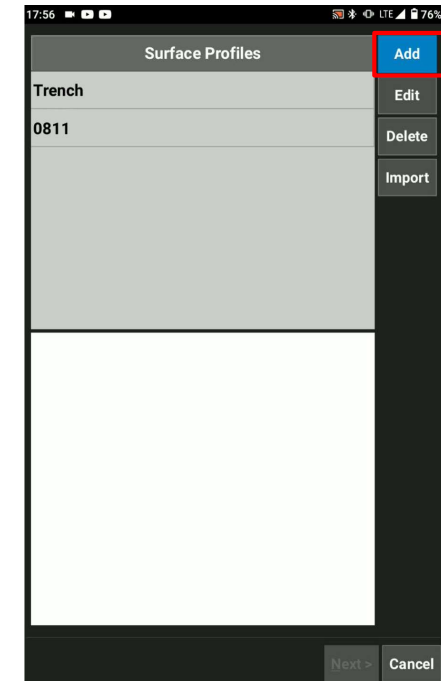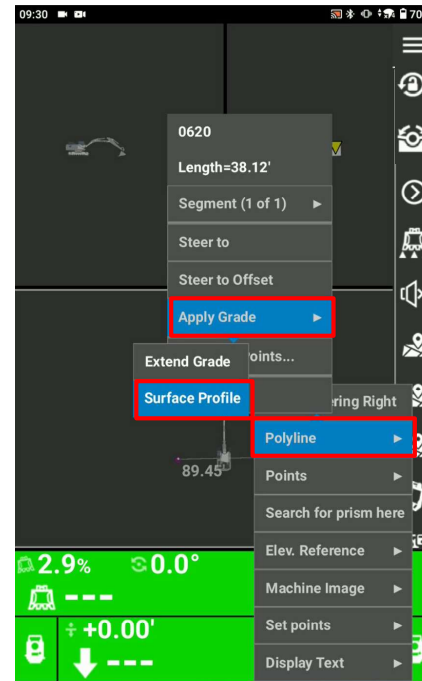
Surface from Polyline

- Name the new surface profile

- Select Add to edit the 1st element from the center line

- Name the feature name

- Enter the Horizontal Distance

- Enter the vertical Distance or Grade

- Select OK

Surface from Polyline

- You can see the 1st element

- Select Add to edit the 2nd element from the center line

- Name the feature name

- Enter the Horizontal Distance

- Enter the vertical Distance or Grade

- Select OK

Surface from Polyline

- You can see the 2nd element

- Select Add to edit the 3rd element from the center line

- Name the feature name

- Enter the Horizontal Distance
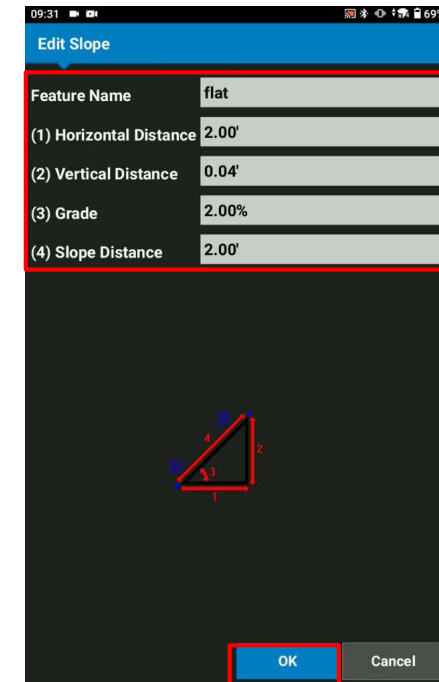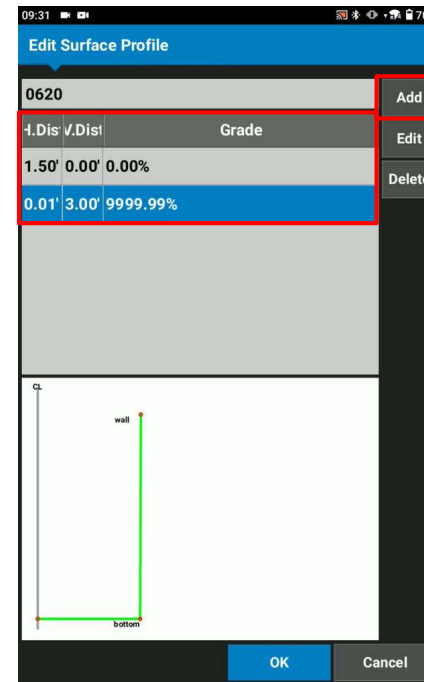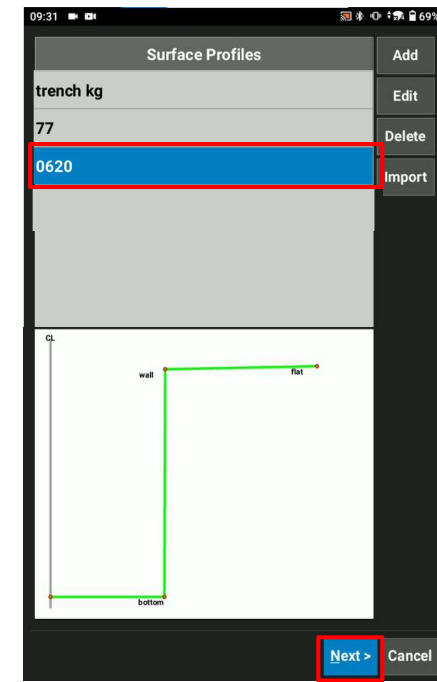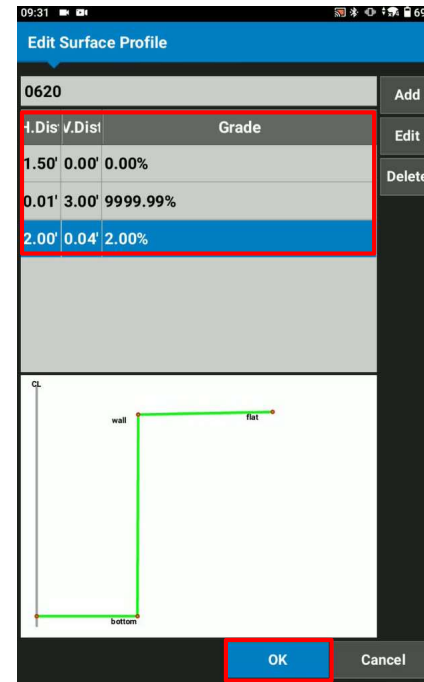
- Enter the vertical Distance or Grade

- Select OK

Surface from Polyline

- You can see the 3rd element

- Select OK

- Select the created surface profiles

- Select Next

Surface from Polyline

- Select Left and right of centerline

- H Offset value is left offset and right from the centerline

- V Offset value is the up and down offset from the center line

For example, If there is 3' down offset from the current elevation, then -3.00' V. Offset should be input